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July 16, 2004

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Ms. Marlene H. Dortch, Secretary
Federal Communications
Commission
445 Twelfth Street, S.W.
Washington, D.C. 20554

**RE: WT Docket No. 02-86
WT Docket No. 03-103
Notice of *Ex Parte* Presentation**


Dear Ms. Dortch:

This is to inform you that AirCell, Inc. ("AirCell") representatives Bill Gordon and I made an *ex parte* presentation on July 15, 2004 to Sheryl Wilkerson and Eric Gunning, Office of FCC Chairman Powell, with respect to the above-referenced proceedings.

The meeting addressed the issues set forth in the attached one-page overview, including background on AirCell's operations and a summary of AirCell's positions on the pending AirCell petition for extension of waiver and the FCC's Air-to-Ground proceeding, as referenced above. Specifically, AirCell presented the attached slides on these points, and stressed its interest in relocating to the ATG band.

Pursuant to Section 1.1206(b)(1) of the commission's rules, I am filing this notice electronically in the above-referenced docket. In addition, I am sending one copy of this notice to each of the FCC staff listed below. Please contact me directly with any additional questions.

Respectfully submitted,


Michele C. Farquhar
Counsel to AirCell, Inc.

Enclosures

cc: Sheryl Wilkerson
Eric Gunning
Michael Duel Sullivan, Wilkinson Barker Knauer LLP



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AirCell Meeting with Sheryl Wilkerson
July 15, 2004

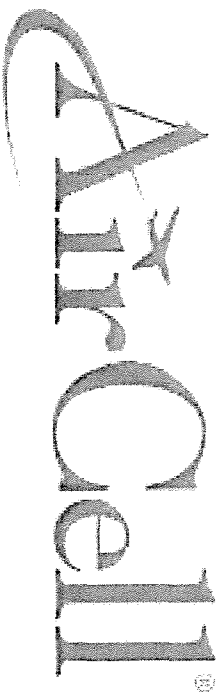
I. Background on AirCell

II. Overview of AirCell's operations and pending FCC petition

- Background on FCC's AirCell decisions and court decisions
- Pending AirCell Petition for Extension (WT Docket No. 02-86)
- Update on AirCell operations, customer base

**III. Status of FCC's pending Air-to-Ground proceeding
(WT Docket No. 03-103)**

- Summary of comments and reply comments
 - Majority of commenters seek revised technical rules to allow broadband services and new opportunities for competition
 - Only the incumbent, Airfone, seeks to preserve the current monopoly
- Summary of new technical filings from AirCell and Boeing
 - Support for as many as four air-ground competitors
 - Dispute technical challenges from Airfone
- FCC should facilitate AirCell's relocation to ATG band



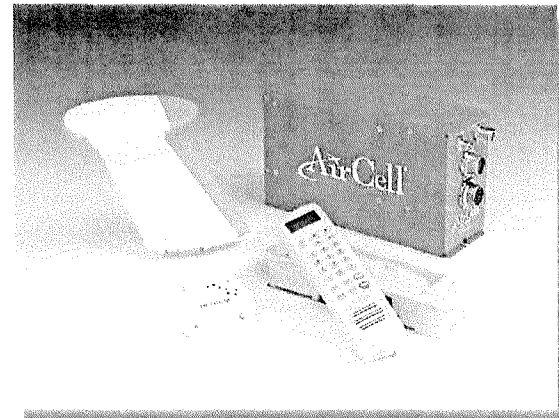
In Touch-In Flight®

FCC Update

July 15, 2004

About AirCell

- **Leading manufacturer of low-cost, light-weight telecommunication systems for aircraft**
- **“One-stop-shop” for airborne equipment ... and airtime**
 - General Aviation
 - Government Aviation
 - Airlines
- **Heavily involved in various industry activities surrounding airborne connectivity – WAEA, RTCA, etc.**



About AirCell (continued)

- **Solutions leverage existing telecom infrastructure – AirCell Cellular network and Iridium Satellites**
- **Primarily serving the General Aviation Jet market with voice and low speed data applications**
- **Nearly 1,600 systems in service**



About AirCell (continued)

- **Standard option at Bombardier, Cessna, Dassault, Embraer, and Raytheon**
- **Major Government Customers**
DOD, Dept of Energy, FBI, US Customs, DOI
- **Market leader in systems sold and growth rate**
- **Frontier trial in process (STC on A319)**



Aircraft Types Installed

Airbus A319

Bell 430

Boeing: 727 and 757-200

Boeing/McDonnell Douglas F-15

Bombardier

Challenger: 600, 601 and 604

Global Express

Learjet: 24B, 45, 55 and 60

Cessna:

Caravan 208/B

CitationJet 1 (525)

CitationJet 2 (525A)

Citation S/II (S550)

Citation V/Ultra/Encore (560 series)

Citation Excel (560XL)

Citation III/VI/VII (650 series)

Citation X (750)

Dassault Falcon: 20, 50 and 900

Embraer Legacy

Gulfstream: GII, GIII, GIV and GV

Israel Aircraft Industries:

Astra

Westwind I/II-1124/A

Mitsubishi MU-2B

Piaggio Avanti

Pilatus PC-12

Piper Cheyenne

Raytheon Beechcraft:

Beechjet 400A

King Air: C90A, B200, B300 and 350

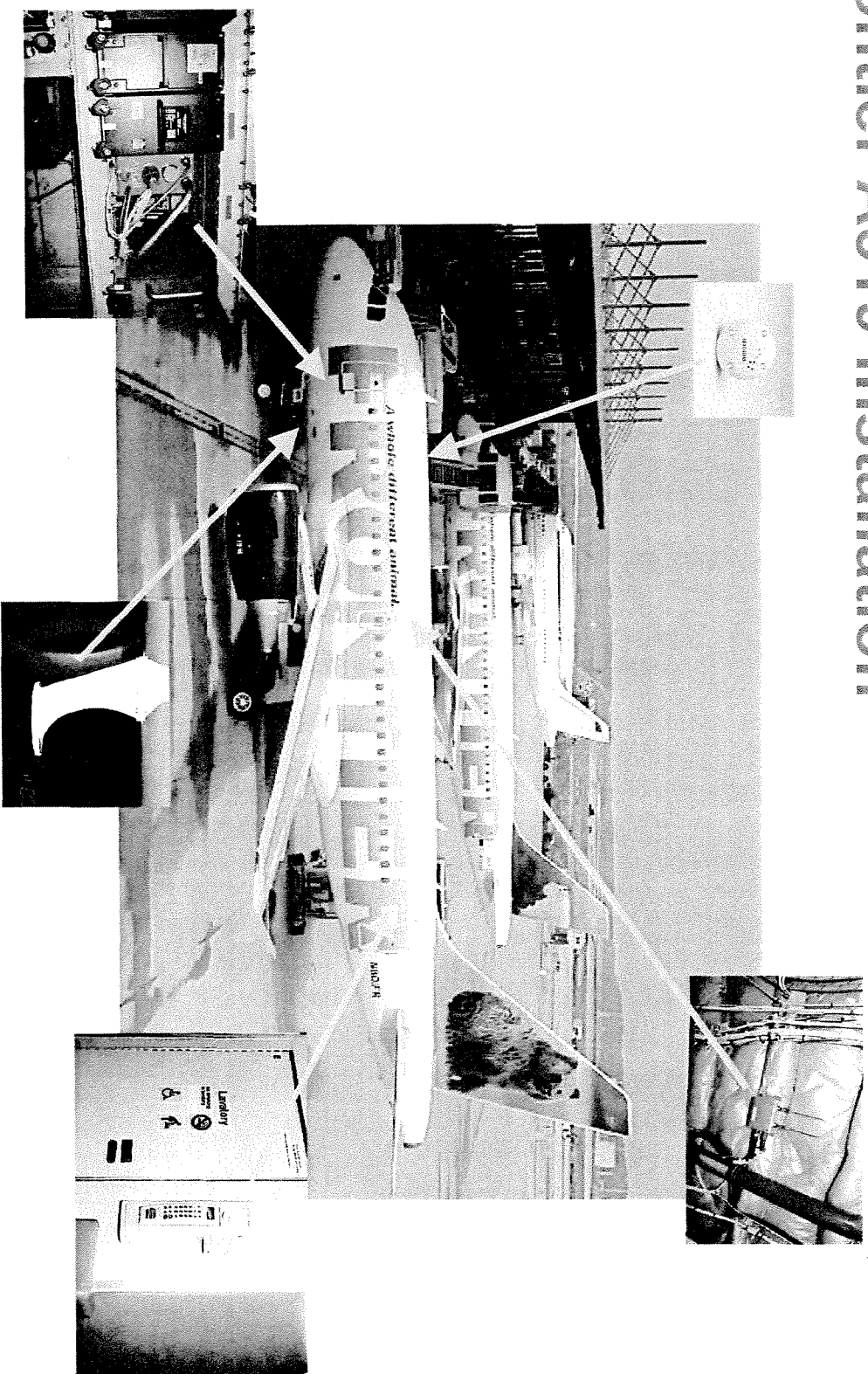
Premier I

Raytheon Hawker: 400A, 700A, 800A and 800XP

Rockwell Sabreliner 65

Sikorsky S-76B

Frontier A319 Installation



Communications Services



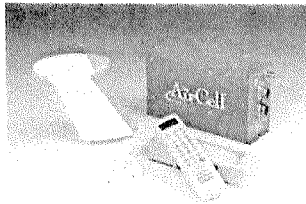
Today ...

- **Passenger Voice Communications**
- **Crew calling (medical emergency assistance, dispatch, etc.)**
- **Refresh for server-based IFE information**
- **Flight deck backup voice service**
- **Delivery of weather maps to the flight deck**

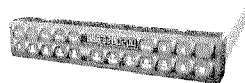
Near term ...

- **Capability to refresh Electronic Flight Bag information**
- **Passenger “hot spot” email service**
- **Security – potential for Air Marshal use**
- **Data refresh for server-based IFE information**

Today's Communications Hardware



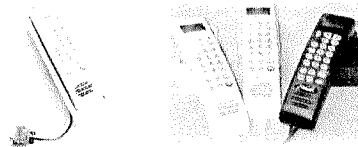
**Cellular & Satellite
Telecom System
AST 3500 Transceiver**



**Panel Mount
Cellular
Voice/Data for
GA Aircraft**



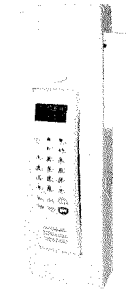
**Satellite
Telecom System
ST 3100 Transceiver**



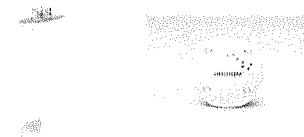
Handsets



**Remote Mount
Cellular Data Transceiver**



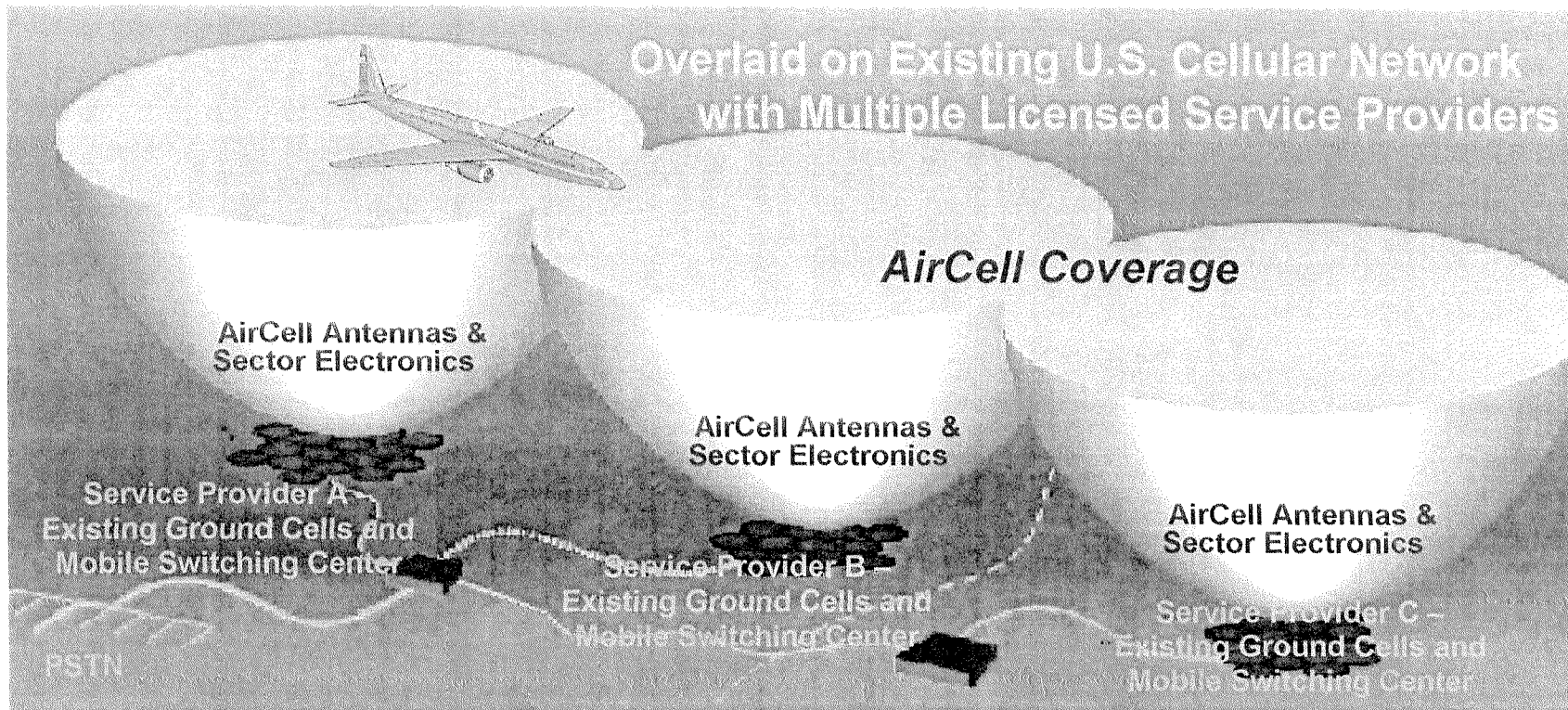
**Cordless Bulkhead
Phone with Credit
Card Reader**



Antennas

→ Today's AirCell Cellular Network

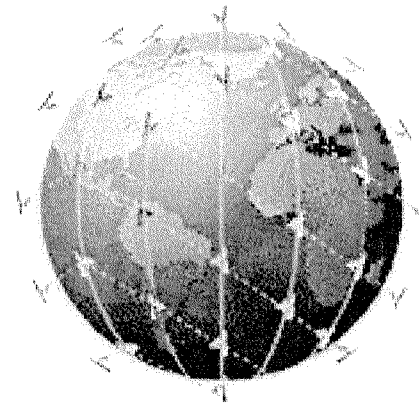
- The only FCC-Approved cellular network for aviation
- Voice, fax, and data up to 9,600 bps
- Covers the majority of continental U.S.



One Company – Multiple Networks

✈ **The Iridium Satellite Network**

- 66 LEO satellites
- Global coverage – including polar regions
- Voice and data up to 2,400 bps



- ### ✈ **Continuing the AirCell strategy of leveraging existing telecommunication infrastructures to offer the lowest airtime rates**

AirCell Near Term

- AirCell has petitioned the FCC for:
 - An extended waiver period
 - An increase in network capacity to 19 channels
 - An elimination of the digital exclusion

Recent Filings by AirCell

Satisfies the Commissions waiver standards

Serves the public interest by :

promoting aviation safety and security

**providing competition in a monopolistic
environment held by Verizon**

Supports FCC Policy on efficient spectrum use

**Provides sound technical analysis supporting non-harmful
interference operations.**

Unique “Window of Opportunity” in aviation Communications

- **On Threshold of Dramatic Change in Passenger Voice/Data**
 - ***One Phone Goes Anywhere*** - Personal cell phones and other wireless devices will be used in flight
 - **WiFi now flying**
- **Airline Travelers want to stay connected**
 - **In addition to cell phones, more than 2/3 now carry WiFi device**
 - **Want VPN, internet, and other broadband services**
- **Pent up Need in Stranded Airlines**
 - **Over 70% of U.S. airliners have no air-to-ground connection outside the cockpit**

AirCell Long Term – Move to 800 MHz ATG Band

- AirCell wishes to relocate to the ATG band and evolve to digital cellular based service:
 - 16x Capacity
 - “Clean” spectrum
 - Feature rich offering possible
 - Feature transparency (same service ground and air)
 - Natural evolution to use of mobile phones in the air

Four Companies can share the ATG Band

- Expert team has been working on this program for almost a year.
- Modeling demonstrates four companies can share the band and still offer greatly expanded, feature rich, services.
- Boeing acknowledges feasibility of AirCell proposal.
- Evolutionary steps to use of personal cell phones in flight (RTCA subcommittee, FAA, Airlines).

Passenger Features

- AirCell will be available to passengers whenever FAA allows handsets to be operated
 - **Expected to be above 10,000 feet initially, eventually from pushback to landing**
- Passengers using the AirCell system will have access to the same features typically available when roaming:
 - **Make and receive voice calls**
 - **Call waiting, 3-way calls**
 - **Send and receive SMS and data**
 - **Access to “home system” voicemail**

AirCell®

In Touch-In Flight®